

ABSTRACT

A hot work tool steel having a chemical composition in wt %: C: 0.10 to 0.35 %, Si: less than 0.80 %, Mn: 3.0 % or less, Cr: 2.0 % or more and less than 7.0 %, N: more than 0.05 % and 0.50 % or less, O: 0.0100 % or less, P: 0.050 % or less, Al: 0.050 % or less, with the proviso that $1/2W + Mo$: 0.3 to 5.0 %, C + N: 0.20 to 0.60 % and C/N: 6 or less, and the balance: substantially Fe, and optionally V: 0.01 to 0.5 %. The hot work tool steel exhibits excellent resistance to melting, while retaining good toughness and good resistance to heat checking.